

APODIZED FIBER GRATING FABRICATION APPARATUS, HAS UV LASER EMITTING LASER BEAM AND USES BEAM SPLITTER AND SCREEN MASK WITH FIBER GRATING HAVING UNIFORM REFRACTIVE INDEX DISTRIBUTION IN LENGTH DIRECTION

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#### PATENT FAMILY

Patent Number: EP 1065535 A2 20010103

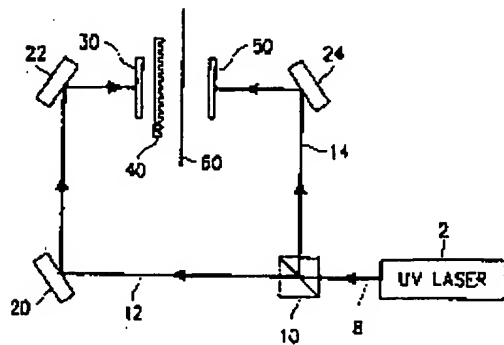
Abstract: EP 1065535 A

**NOVELTY** - Apparatus uses beam splitter and screen mask (40) with fiber grating having uniform refractive index distribution in length direction. Ultra violet laser (2) emits a **split** UV laser beam and mirrors form light paths to concurrently project the beams onto the optical fiber from two directions by reflecting the **split** beam while the phase mask passes reflected beams to form gratings.

**USE** - As apparatus for fabricating an apodized fiber grating with an ultra violet laser.

**ADVANTAGE** - Readily uses a beam splitter and a screen mask.

**DESCRIPTION OF DRAWING(S)** - The drawing shows a schematic view of the apodized fiber grating fabricating apparatus.



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